

SUMMARY OF THE INVENTION

On the basis of the present invention, in an interactive service center (contact center) in which, under the management of a central installation, at least one person (agent) processes inquiries, data relating to the processing or the management of the processing are recorded, the recorded data are displayed on a mobile communication unit, and the displayed data are monitored by a supervisor. According to the present invention, an apparatus in a contact center includes at least one terminal for an agent processing inquiries, a central installation which manages the processing of the inquiries, a mobile communication unit which displays management data, processing data or data derived therefrom for the supervisor to monitor, and a unit which transmits data for the mobile communication unit. As a result of the inventive method or the inventive apparatus, the supervisor is no longer tied to one particular workplace.

In accordance with one preferred embodiment of the method, the recorded data are used to create supervisory information which is displayed on the mobile communication unit. The reduction in the information to be monitored facilitates monitoring for the supervisor.

In accordance with another preferred embodiment of the method, the supervisory information is transmitted to the mobile communication unit, which reduces the volume of information to be transmitted and avoids creation in the mobile communication unit.

Preferably, the processing or the management of the processing is controlled by the supervisor using the mobile communication unit. As such, when necessary, the supervisor is able to intervene in the procedures in the contact center from any location.

In accordance with another preferred embodiment of the method, the supervisory information is transmitted to the mobile communication unit when an appropriate criterion is satisfied. The correct choice of criterion allows a critical state to be transmitted to the supervisor in such good time that the supervisor is able to take countermeasures in good time before the potential consequences.

It is particularly expedient for the recorded data or the supervisory information to be additionally displayed to the supervisor by a fixed unit, since the mobile communication unit then need not be a full technical replacement for the fixed unit. This allows the supervisory information in the mobile communication unit to be reduced to a necessary degree without limiting the monitoring and control options.

Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Invention and the Figures.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows a schematic illustration of an apparatus in accordance with the teachings of the present invention.

Figure 2 shows a schematic illustration of a conventional interactive service center.

DETAILED DESCRIPTION OF THE INVENTION

Figure 1 shows an interactive service center (contact center) 10 having a central installation 1, a fixed monitoring unit 2, terminals 3-6 and a mobile monitoring unit 7. The central installation 1 is connected to the network 8 and to the transmission unit 9. The contact center 10 receives an inquiry from the network 8, and this inquiry is switched in the central installation 1 to the terminal 3-6 of a free agent. The inquiry is then processed by the agent. The agents and their terminals 3-6 may be split into groups and additionally into service levels according to the type or quality of the service.

The central installation 1 records all the data in the contact center 10 which relate to the processing of the inquiries or to management of the processing, and evaluates these data to produce supervisory information. The supervisory information is displayed for a supervisor on the fixed monitoring unit 2. The supervisory information is also transmitted wirelessly, using the transmission unit 9, to a mobile communication unit 7 for the supervisor, which mobile communication unit likewise displays this information. In this context, the

transmission unit 9 may be a local mobile telephone system or an interface to the public mobile radio network, for example.

On the basis of the supervisory information displayed, the supervisor can use the mobile communication unit 7 to take control action in the contact center.

5 By way of example, he/she can react to an increased number of inquiries for a group by sending a message to an agent or to the appropriate head of the group to transfer one agent from one group to another for a short time, or by telling the agents in a group to process the inquiries as quickly as possible.

10 The mobile communication unit 7 also provides the supervisor with the opportunity to follow individual inquiries as they are handled; for example, to monitor calls, to follow processing, to exchange messages with the agents or groups, to remove individual agents from a group or to request additional agents.

15 Recorded data or the supervisory information can be transmitted to the mobile communication unit 7 at the supervisor's request at regular intervals of time or when critical values for the supervisory information or recorded data (criteria) are reached, or else may be just signaled for the last two methods. These embodiments also can be used in combination with one another.

20 The supervisory information is created universally in the central installation 1 or in the fixed monitoring unit 2. However, when needed, the supervisor also creates the supervisory information on his/her mobile communication unit 7 and can thus react flexibly to unforeseeable situations.

25 The supervisory information may be the following, for example: number of inquiries in a queue, inquiry disconnection rate, average disconnection rate, average waiting time, number of inquiries exceeding time, oldest inquiry, overview of agent status (free, processing, finishing off, break, etc.), agent overview, short-term statistics, discrepancies from normal values.

30 A conceivable mobile communication unit 7 is any mobile computer-controlled unit with a display facility; for example, a pager, a mobile telephone, a personal digital assistant or a portable computer. On the basis of one refinement of the mobile communication unit 7, the recorded data and the supervisory information are transmitted as pure data, voice information, text information or

image information. For a mobile telephone, transmission by short message (SMS) or retrieval using WAP is possible, for example.

5 The inquiries to be processed may be received, by way of example, over the Internet, a public telephone network or a mobile radio network. Considering IP-based telephony, the central installation 1 can be split, by way of example, into a switching unit, an evaluation unit, a CTI server, a local area network, computers for the agents, a local mobile telephone network and a customer database.

10 Although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.